# Research Administration

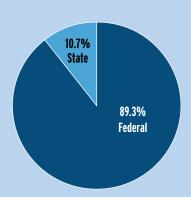
### STATE PLANNING & RESEARCH PART II PROGRAM

### FY 2020 At-A-Glance

OCT. 1, 2019 - SEPT. 30, 2020

This publication presents a summary of Research and Library funding statistics and project progress for Fiscal Year (FY) 2020. The tables on pages 2 through 7 list all MDOT-funded research projects by topic area that were active or completed during 2020. These listings include both individual Michigan research projects and multi-state pooled fund projects.

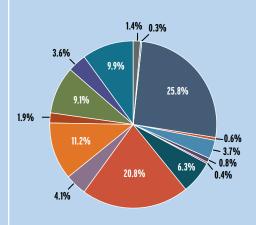
### **FY 2020 SP&R Part II Expenditures** by Funding Source



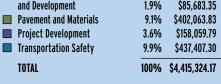
State Research Funds Federal Research Funds TOTAL

\$682.883.44 \$5,702,372.73 \$6,385,256,17

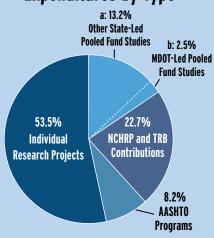
### FY 2020 Research Project **Expenditures by Focus Area**



Administration	1.4%	\$ 62,913.43
Asset Management and Policy	0.3%	\$12,000.00
Bridges and Structures	25.8%	\$1,137,024.61
Construction	0.6%	\$25,398.79
<b>Environment and Water Resources</b>	3.7%	\$164,072.07
Freight Logistics and Maritime	0.8%	\$37,000.00
Freight Rail	0.4%	\$19,434.33
Innovative Contracting	6.3%	\$278,883.40
Intelligent Transportation		
Systems and Signals	20.8%	\$917,120.00
Maintenance	4.1%	\$183,198.79
Mobility and Traffic Incidents	11.2%	\$495,064.48
Nonmotorized Planning		
and Development	1.9%	\$85,683,35



### FY 2020 SP&R Part II **Expenditures by Type**



Individual Research Projects	\$3,414,417.22
Multi-State Pooled Fund Studies	\$1,000,906.95
a: Participation in Pooled Fund Studies	
Led by Other States	\$841,000.00
b: Participation in MDOT-Led Pooled Fund	
Studies	\$159,906.95
Research Project Expenditures	\$4,415,324.17
NCHRP and TRB Contributions	\$1,448,732.00
AASHTO Programs	\$521,200.00
TOTAL	\$6,385,256.17



## MDOT 2020 Research

#### THESE TABLES ARE ORGANIZED BY FOCUS AREA:

#### ABBREVIATIONS:

FAM: Focus Area Manager RM: Research Manager

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Completed research reports that were released in FY 2020: October 2019 to September 2020.

Research contracts that were active during FY 2020.

#### **POOLED FUND PROJECTS:**

Multi-state transportation pooled fund studies led by MDOT.

Other multi-state transportation pooled fund studies in which MDOT participates, either through an FY 2020 contribution or through past contributions that are still producing value for Michigan.

Completed project reports are available at www.Michigan.gov/MDOTResearch.

A mark in the "Spotlight" column indicates that a Research Spotlight for this project can be found at www.Michigan.gov/MDOTResearch.

"# of Participating States" for some pooled funds includes Canadian provinces and agencies such as the Federal Highway Administration (FHWA).

A complete FY 2020 annual report can be found at www.Michigan.gov/MDOTResearch.

#### Asset Management and Policy Pooled Fund Study

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2020 Expenditures	Expenditures Prior to 2020	Total MI Commitment	Start Date	End Date
TPF-5(335)	2016 through 2020 Biennial Asset Management Conference and Training on Implementation Strategies	Annelin	IA DOT	20	\$12,000.00	\$0.00	\$12,000.00	10/1/19	12/31/22

Bridg	es and Structures			FAM	ls: Brad Wa	agner and	Jason DeRu	yver, RM:	Michael Tow	nley
Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 20 Expenditures	Spotlight
<u>SPR-1676</u>	Asset Management of Retaining Walls	UM	Athanasopoulos- Zekkos	E. Burns	10/1/16	11/30/19	\$310,675.12	100%	\$0.00	Х
<u>SPR-1684</u>	Best Practices for Modernizing MDOT Bridge Design Manual, Guides and Policy Documentation	WSU	Aktan	Wagner	1/18/18	12/31/19	\$283,590.78	100%	\$41,082.21	Х
<u>SPR-1687</u>	Accelerated Bridge Preservation Technologies	MSU	Corley-Lay	E. Burns	1/29/18	4/30/20	\$131,571.10	100%	\$48,522.34	Х
<u>SPR-1691</u>	Bridge Structural Analyses for Staged Construction and Constructability Review	WSU	Aktan	Jansson	7/1/17	5/31/20	\$295,937.12	100%	\$79,656.64	Х
	Evaluation of Camber and Deflections for Bridge Girders	WSU	Menkulasi	Kopper	3/1/19	3/1/21	\$305,825.84	73%	\$144,571.55	
	Development of Guidelines for the Use of Intermediate Diaphragms on Precast Concrete Beam Superstructures	WSU	Eamon	Nadjarian	10/1/19	4/30/21	\$195,444.01	61%	\$118,970.97	
	Concrete Deterioration of Prestressed Bridge Beams	WMU	Attanayake	Bruinsma	3/1/19	12/31/21	\$310,881.00	36%	\$80,349.53	
	Effects of Concrete Cure Time on Epoxy Overlay and Sealant Performance	WMU	Attanayake	Belcher	7/1/18	12/31/21	\$398,772.79	92%	\$173,402.04	
	Statewide Overall Carbon Fiber Composite Cable Bridge Monitoring	LTU	Grace	Chynoweth	12/17/13	9/30/25	\$1,171,711.17	36%	\$90,562.38	

### **Bridges and Structures Pooled Fund Studies**

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2020 Expenditures	Expenditures Prior to 2020	Total MI Commitment	Start Date	End Date
TPF-5(281)	Center for the Aging Infrastructure: Steel Bridge Research, Inspection, Training and Education Engineering Center - SBRITE	Curtis	IN DOT	10	\$30,000.00	\$80,000.00	\$125,000.00	10/1/17	6/30/21
TPF-5(363)	Evaluation of 0.7-Inch-Diameter Carbon Fiber Reinforced Polymer (CFRP) Pretensioning Strands in Prestressed Beams	Kahl	MI DOT	4	\$129,906.95	\$136,733.00	\$266,639.95	12/5/17	9/30/20
TPF-5(372)	Building Information Modeling (BIM) for Bridges and Structures	Wagner	IA DOT	24	\$60,000.00	\$40,000.00	\$100,000.00	11/8/17	3/31/23
TPF-5(387)	Development of an Integrated Unmanned Aerial Systems (UAS) Validation Center	Zakrzewski	IN DOT	9	\$50,000.00	\$0.00	\$75,000.00	9/1/18	9/1/21
TPF-5(432)	Bridge Element Deterioration for Midwest States	Curtis	WI DOT	12	\$20,000.00	\$0.00	\$40,000.00	10/1/19	9/30/21
TPF-5(433)	Behavior of Reinforced and Unreinforced Lightweight Cellular Concrete for Retaining Walls	Tichenor	UT DOT	9	\$30,000.00	\$0.00	\$30,000.00	10/1/19	9/30/22
TPF-5(436)	Development of Criteria to Assess the Effects of Pack-out Corrosion in Built-up Steel Members	Nadjarian	IN DOT	6	\$40,000.00	\$0.00	\$120,000.00	10/1/19	9/30/22
TPF-5(468)	Structural Behavior of Ultra-High Performance Concrete	Wagner	FHWA	8	\$0.00	\$0.00	\$50,000.00	2/5/20	12/31/25

Construction						FAM: Matt Bellgowan, RM: André Cl							
	Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 20 Expenditures	Spotlight		
		Training Tools for Effective Advancement of Digital Technologies for Construction Field Operations	MSU	El-Gafy	Bellgowan	2/1/20	4/30/22	\$222,080.18	0%	\$398.79			

### **Construction Pooled Fund Study**

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2020 Expenditures	Expenditures Prior to 2020	Total MI Commitment	Start Date	End Date
TPF-5(438)	Smart Work Zone Deployment Initiative (FY20-FY24)	Renner	IA DOT	8	\$25,000.00	\$0.00	\$100,000.00	10/1/19	12/31/25

Enviro	Environment and Water Resources							FAM: Hal Zweng, RM: Michael Townley				
Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 20 Expenditures	Spotlight		
<u>SPR-1688</u>	Improved Calculation of Scour Potential in Cohesive Soils and Scour-Susceptible Rock	MTU	Liu	Curtis	5/1/19	12/31/20	\$90,417.82	87%	\$54,021.40			
<u>SPR-1696</u>	Reduction of pH Levels from Underdrain Outlets	LTU	Bandara	Zweng	5/1/18	12/31/20	\$169,010.19	63%	\$38,247.98			
	Eastern Massasauga (Sistrurus catenatus) Road Ecology and Population Dynamics in Michigan	MSU	Roloff	Grabarkiewicz	11/25/19	5/31/23	\$381,984.57	14%	\$51,802.69			

### **Environment and Water Resources Pooled Fund Study**

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2020 Expenditures	Expenditures Prior to 2020	Total MI Commitment	Start Date	End Date
TPF-5(358)	Wildlife Vehicle Collision Reduction and Habitat Connectivity	Novak	NV DOT	13	\$20,000.00	\$0.00	\$60,000.00	10/1/19	9/30/22

### Freight Logistics and Maritime Pooled Fund Study

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2020 Expenditures	Expenditures Prior to 2020	Total MI Commitment	Start Date	End Date
TPF-5(396)	Mid-America Freight Coalition (MAFC) - Phase 3	Karnes	WI DOT	10	\$37,000.00	\$37,000.00	\$111,000.00	2/1/19	9/30/21

Freight Rail FAM: Nikkie Johnson, RM: Mary Hoffmeyer							eyer				
	Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 20 Expenditures	Spotlight
		Safety Enhancements at Short-Storage-Space Railroad Crossings	Texas A&M	Das	Johnson	1/1/20	12/31/22	\$106,642.26	18%	\$19,434.33	

Innovative Contracting FAM: Ryan Mitchell, RM: Michael Townley									nley	
Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 20 Expenditures	Spotlight
	Michigan Transportation Construction Price Index	WMU	Liu	Kirkpatrick	1/1/20	1/31/21	\$102,244.35	75%	\$77,013.67	
	Innovative Contracting Best Practices	WSP	Chenault	Mitchell	2/1/20	3/31/21	\$356,643.66	52%	\$183,988.10	
	Innovative Contracting Risk Management Best Practices	RS&H	Keetley	Mitchell	8/1/20	7/31/21	\$382,451.00	5%	\$17,881.63	

Intelli	Intelligent Transportation Systems and Signals								FAM: Collin Castle, RM: André Clover				
Report Number	Title	End Date	Total Budget	% Complete	FY 20 Expenditures	Spotlight							
SPR-1695	Connected Vehicle and Transportation Technology Research	UM	Sayer	Parker	10/1/13	12/31/20	\$3,000,024.81	100%	\$384,636.00				
	Sponsorship of the TRB Roundtable on Preparing for Automated Vehicles and Shared Mobility Services	TRB	N/A	Clover	1/1/20	12/31/21	\$50,000.00	100%	\$25,000.00				
	Development of a Network-Level Evaluation Tool for Managing ITS Infrastructure	Cambridge Systematics	Van Hecke	Gorman	6/1/19	6/30/21	\$478,780.71	67%	\$276,047.58				
	Recruit and Maintain/Upgrade a High-Tech Workforce for Emerging Technologies	Center for Automotive Research	Dziczek	Feldpausch	10/15/19	6/30/21	\$261,315.27	34%	\$87,612.57				
	Quantifying Effectiveness and Impacts of Digital Message Signs on Traffic Flow	WMU	Kwigizile	Gutierrez	11/1/19	12/31/21	\$179,966.82	35%	\$63,823.85				

### Intelligent Transportation Systems and Signals Pooled Fund Studies

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2020 Expenditures	Expenditures Prior to 2020	Total MI Commitment	Start Date	End Date
TPF-5(206)	Research Program to Support the Research, Development and Deployment of System Operations Applications of Vehicle Infrastructure Integration (VII)	Castle	VA DOT	23	\$0.00	\$450,000.00	\$450,000.00	10/1/08	6/30/20
TPF-5(359)	Evaluating New Technologies for Roads Program Initiatives in Safety and Efficiency (ENTERPRISE), Phase II	Feldpausch	MI DOT	9	\$30,000.00	\$115,000.00	\$424,420.00	1/2/18	11/30/21
TPF-5(389)	Connected Vehicle Pooled Fund Study	Castle	VA DOT	26	\$50,000.00	\$0.00	\$100,000.00	10/1/19	9/30/21

4 continued →

Maint	enance						FAM: Tir	m Croze, F	RM: André CI	over
Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 20 Expenditures	Spotlight
<u>SPR-1685</u>	Develop and Implement a Freeze-Thaw Model-Based Seasonal Load Restriction Decision Support Tool	MTU	Liu	Longworth	4/1/17	3/31/20	\$166,705.69	99%	\$14,154.23	Х
SPR-1692	Effectiveness of Green Strobes on Winter Maintenance Vehicles and Equipment	MSU	Zockaie	Gaus/ Longworth	6/4/19	7/31/20	\$110,860.03	100%	\$84,044.56	Х

### **Maintenance Pooled Fund Studies**

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2020 Expenditures	Expenditures Prior to 2020	Total MI Commitment	Start Date	End Date
TPF-5(290)	Aurora Program	Longworth	IA DOT	19	\$0.00	\$150,000.00	\$150,000.00	8/1/14	5/31/21
TPF-5(347)	Development of Maintenance Decision Support System	Longworth	SD DOT	14	\$25,000.00	\$75,000.00	\$140,000.00	10/1/16	9/30/21
TPF-5(353)	Clear Roads Winter Highway Operations Pooled Fund - Phase II	Longworth	MN DOT	36	\$25,000.00	\$75,000.00	\$125,000.00	10/1/16	12/31/21
TPF-5(435)	Aurora Program (FY20-FY24)	Roath	IA DOT	18	\$25,000.00	\$0.00	\$125,000.00	10/1/19	9/30/24
TPF-5(441)	No Boundaries Transportation Maintenance Innovations	Rowley	CO DOT	20	\$10,000.00	\$0.00	\$50,000.00	10/1/19	9/30/24

Мо	Mobility and Traffic Incidents								RM: André Cl	over
Repo Numb	rt ritle	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 20 Expenditures	Spotlight
<u>SPR-16</u>	Development of a Michigan-Specific VISSIM Protocol for Submissions of VISSIM Modeling		Hill	Engle	11/27/18	9/30/20	\$152,504.32	99%	\$60,731.48	Х
	Integration of Unmanned Aerial Systems Data Collection into Day-to-Day Usage for Transportation Infrastructure/Program Asset Management and Systems Operations	MTU	Brooks	Cook	6/12/19	6/11/22	\$893,225.22	57%	\$409,333.00	

### Mobility and Traffic Incidents Pooled Fund Studies

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2020 Expenditures	Expenditures Prior to 2020	Total MI Commitment	Start Date	End Date
TPF-5(176)	Traffic Analysis and Simulation	Firman	FHWA	16	\$0.00	\$70,000.00	\$70,000.00	6/1/16	9/30/21
TPF-5(319)	Transportation Management Center (TMC) Pooled Fund Study	Peplinski	FHWA	23	\$25,000.00	\$125,000.00	\$200,000.00	4/17/15	4/16/22
TPF-5(351)	Self-Deicing LED Signals	Smalley	KS DOT	7	\$0.00	\$60,000.00	\$60,000.00	3/25/16	6/30/21

Nonmotorized Planning and Development								onso, RM:	Mary Hoffm	eyer
Report Number Title Contractor Investigator Project Manager Start Date End Date								% Complete	FY 20 Expenditures	Spotlight
	Synthesis of National Best Practices on Pedestrian and Bicycle Design, Guidance and Technology Innovations	MSU	Gates	McQuiston	4/1/19	6/30/21	\$213,401.91	49%	\$85,683.35	

Pavem	ents and Materials	FAMs: Curtis Bleech and John Staton, RM: André Clover								
Report Number Title Contractor Investigator Project Manager Start Date End Date Total Budget Complete								FY 20 Expenditures	Spotlight	
	Evaluation of MDOT's Long-Life Pilot Projects	MSU	Kutay	Trudelle	10/25/19	9/30/21	\$415,461.35	34%	\$141,653.86	
	Characterizing Initial Roughness and Material Properties for Pavement- ME Analysis and Design in Michigan	MSU	Haider	Schenkel	1/21/20	5/31/22	\$534,873.29	13%	\$68,409.97	

### **Pavements and Materials Pooled Fund Studies**

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2020 Expenditures	Expenditures Prior to 2020	Total MI Commitment	Start Date	End Date
TPF-5(267)	Accelerated Performance Testing for the NCAT Pavement Test Track	Bleech	AL DOT	19	\$0.00	\$990,000.00	\$990,000.00	4/15/15	3/31/20
TPF-5(313)	Technology Transfer Concrete Consortium (TTCC)	Staton	IA DOT	36	\$0.00	\$60,000.00	\$60,000.00	4/10/15	3/31/21
TPF-5(320)	Base Funding for the North Central Superpave Center	Kennedy	IN DOT	7	\$25,000.00	\$125,000.00	\$150,000.00	2/3/15	9/30/22
TPF-5(341)	National Road Research Alliance (NRRA)	Bleech	MN DOT	8	\$0.00	\$450,000.00	\$750,000.00	2/22/16	2/22/21
TPF-5(368)	Performance Engineered Concrete Paving Mixtures	Staton	IA DOT	20	\$15,000.00	\$45,000.00	\$75,000.00	1/1/17	12/31/21
TPF-5(375)	National Partnership to Determine the Life-Extending Benefit Curves of Pavement Techniques (MnROAD/NCAT Joint Study - Phase II)	Bleech	MN DOT	23	\$50,000.00	\$50,000.00	\$250,000.00	1/1/19	12/30/23
TPF-5(385)	Pavement Structural Evaluation with Traffic Speed Deflection Devices (TSDDs)	Shapter	VA DOT	27	\$90,000.00	\$0.00	\$135,000.00	3/1/19	9/30/21
TPF-5(437)	Technology Transfer Concrete Consortium (FY20-FY24)	Staton	IA DOT	34	\$12,000.00	\$0.00	\$60,000.00	10/1/19	12/31/25

Projec	Project Development FAM: Keith Simons, RM: Michael Townley									
Report Number	Title	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 20 Expenditures	Spotlight	
	Slope Restoration on Urban Freeways	MSU	Cregg	Alton	4/1/17	4/30/21	\$527,138.78	69%	\$53,418.67	
	Developing a Consistent Data-Driven Methodology to Multimodal, Performance-Based and Context-Sensitive Design	MSU	Savolainen	Peterson	10/11/19	9/30/22	\$307,216.07	28%	\$84,641.12	

### Project Development Pooled Fund Study

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2020 Expenditures	Expenditures Prior to 2020	Total MI Commitment	Start Date	End Date
TPF-5(346)	Regional Roadside Turfgrass Performance Testing Program	Simons	MN DOT	5	\$20,000.00	\$80,000.00	\$100,000.00	3/25/16	11/19/20

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Transp	Transportation Safety FAM: Mark Bott, RM: André Clover										
Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 20 Expenditures	Spotlight	
	Effectiveness of Crash Fact/Safety Message Signs on Dynamic Message Signs	MSU	Savolainen	Bott	3/15/19	6/30/21	\$128,561.50	72%	\$71,617.90		
	Measure the Operational Cost and Benefit of Speed Feedback Signs	MSU	Gates	Uzcategui	7/1/18	6/30/21	\$212,704.74	45%	\$54,338.76		
	Evaluating the Impacts of the 2017 Legislative Mandated Speed Limit Increases	MSU	Savolainen	Bott	3/1/19	2/28/22	\$234,826.41	52%	\$101,203.55		
	Performance and Safety of the US-23 Flex Route	MSU	Kassens-Noor	Firman	3/1/19	11/30/22	\$191,438.34	45%	\$65,247.09		

**Transportation Safety Pooled Fund Studies** 

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2020 Expenditures	Expenditures Prior to 2020	Total MI Commitment	Start Date	End Date
TPF-5(255)	Highway Safety Manual Implementation	Shaughnessy	FHWA	23	\$20,000.00	\$80,000.00	\$100,000.00	11/9/15	12/31/20
TPF-5(317)	Evaluation of Low-Cost Safety Improvements	Bott	NV DOT	43	\$15,000.00	\$10,000.00	\$40,000.00	10/1/19	9/30/20
TPF-5(343)	Roadside Safety and Research for MASH Implementation	Torres	WA DOT	28	\$100,000.00	\$100,000.00	\$220,000.00	10/1/16	12/31/21
TPF-5(444)	Traffic Safety Culture - Phase 2	Bott	MT DOT	20	\$10,000.00	\$0.00	\$50,000.00	10/1/19	9/30/24

Travel Demand Forecasting FAM: Karen Faussett, RM: Mary Hoffmeyer									eyer	
Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 20 Expenditures	Spotlight
	Assessing System Performance of the Michigan Trunkline Measures and Analytical Procedures for Planning and Operations	MSU	Zockaie	Maffeo	8/1/20	7/21/22	\$208,404.74	0%	\$0.00	

Admi	nistration									
Report Number	Title	Contractor	Investigator	Project Manager	Start Date	End Date	Total Budget	% Complete	FY 20 Expenditures	Spotlight
	Research Program Services	СТС	Casey	Hoffmeyer	1/1/16	9/30/20	\$443,124.41	52%	\$62,913.43	
	MDOT SPR-Part II Program Peer Exchange	MDOT	N/A	Townley	9/1/20	10/1/20	\$30,000.00	0%	\$0.00	

### **National Initiatives**

Study Number	Title	MDOT Project Manager	Lead State or Agency	# of Participating Partners	MI 2020 Expenditures	Expenditures Prior to 2020	Total MI Commitment	Start Date	End Date
SPR1684(187)	AASHTO 3.01 - Construction/Materials Module Enhancement/ Implementation and Staff Training	D. Burns	AASHT0	N/A	\$371,200.00	\$891,000.00	\$1,262,200.00	10/1/16	9/30/20
SPR1801(179)	AASHTO Engineering Technical Service Programs	Clover	AASHTO/FHWA	N/A	\$150,000.00	\$0.00	\$150,000.00	10/1/19	9/30/20
TPF-5(420)	National Cooperative Highway Research Program (NCHRP) for FY 2020	Clover	FHWA	51	\$1,254,543.00	\$0.00	\$1,235,000.00	10/1/19	9/30/20
TPF-5(450)	TRB Core Program Activities FY 2020 (TRB FY 2021)	Clover	AASHTO/FHWA	24	\$194,189.00	\$0.00	\$194,189.00	10/1/19	9/30/20

## The Research Administration Team

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#### LIBRARY SERVICES

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## RESEARCH SERVICES STATISTICS (FY 2020)

**5** Amendments

8 Closed individual research projects

14 New individual research projects

38 Individual research projects

Pooled fund studies and other national research initiatives

MDOT staff assigned to research advisory panels

### LIBRARY SERVICES STATISTICS (FY 2020)

16,163

Total circulation (MDOT and C&T Library) 171

**New materials** 

359

Reference services 23

Interlibrary loans

### **CONTACT US**

MDOT Research Administration MDOT-Research@Michigan.gov www.Michigan.gov/MDOTResearch